

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084604.D
 Acq On : 31 Oct 2024 06:33
 Operator : JC\MD
 Sample : PB164501ZHE#13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB164501ZHE#13

Quant Time: Nov 01 06:18:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

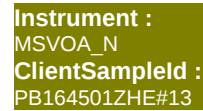
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

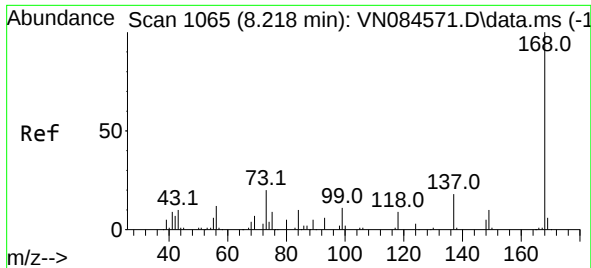
Internal Standards						
1) Pentafluorobenzene	8.224	168	185425	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	327930	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	296545	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	123928	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	129201	48.242	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.480%		
35) Dibromofluoromethane	8.159	113	105584	47.567	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.140%		
50) Toluene-d8	10.565	98	392746	48.033	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.060%		
62) 4-Bromofluorobenzene	12.847	95	134041	43.863	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	87.720%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1038	Below Cal	#	87
6) Chloroethane	3.124	64	1158	Below Cal	#	45
11) Tert butyl alcohol	5.483	59	4129	11.680	ug/l #	73
13) Acrolein	4.183	56	79	0.224	ug/l #	14
16) Acetone	4.436	43	25769	30.809	ug/l #	88
18) Methyl Acetate	5.030	43	14275	1.151	ug/l	97
20) Methylene Chloride	5.259	84	2552	1.083	ug/l #	84
25) 2-Butanone	7.489	43	2638	2.111	ug/l #	84
29) Tetrahydrofuran	7.847	42	261	0.315	ug/l #	34
31) Cyclohexane	8.218	56	4465	1.208	ug/l #	5
36) 1,1-Dichloropropene	8.218	75	15552	5.052	ug/l #	50
37) Ethyl Acetate	7.559	43	3674	1.315	ug/l #	79
38) Carbon Tetrachloride	8.224	117	19923	5.790	ug/l #	16
42) 1,2-Dichloroethane	8.683	62	982	0.307	ug/l #	75
43) Isopropyl Acetate	8.688	43	206232	39.770	ug/l #	79
45) 1,2-Dichloropropane	9.741	63	1473	0.635	ug/l #	44
48) Methyl methacrylate	9.665	41	3188	1.467	ug/l #	43
49) 1,4-Dioxane	9.747	88	65	1.687	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	5141	1.931	ug/l	97
54) cis-1,3-Dichloropropene	10.359	75	41785	11.057	ug/l #	59
56) Ethyl methacrylate	10.982	69	1512	0.480	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	5435	1.454	ug/l #	42
59) 2-Hexanone	11.171	43	104493	53.916	ug/l #	24
74) N-amyl acetate	12.482	43	1152	0.312	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	69085	27.888	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69085	66.161	ug/l #	11
88) 1,4-Dichlorobenzene	13.812	146	71	Below Cal	#	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#13

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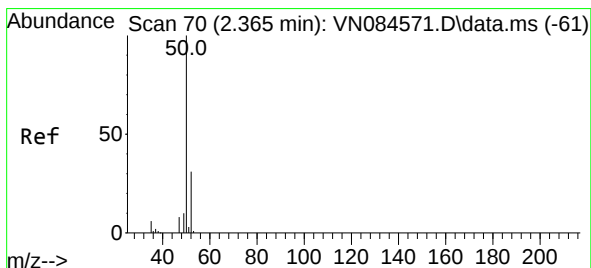
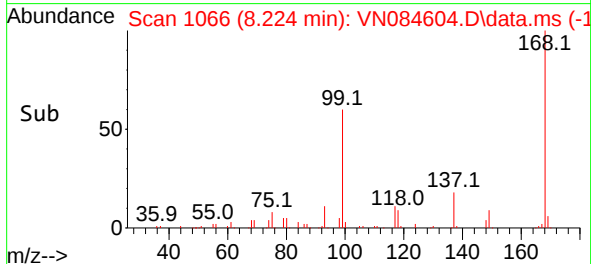
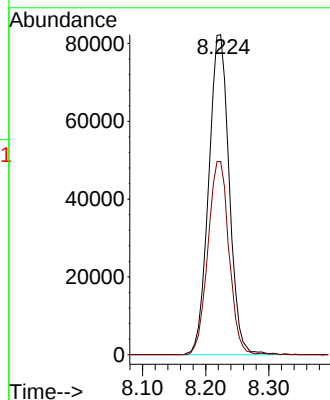
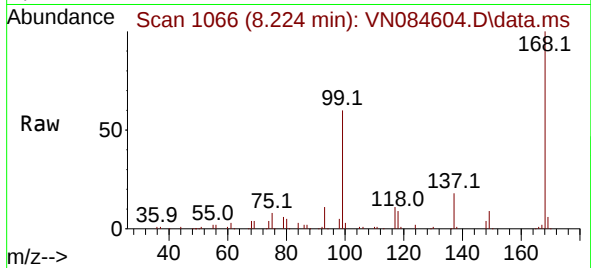




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

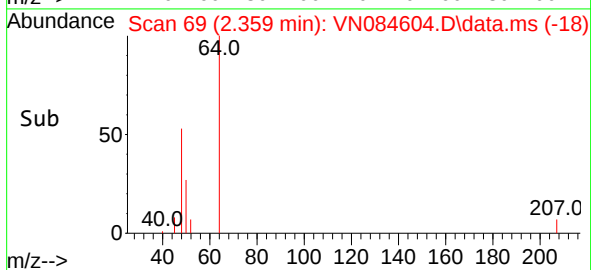
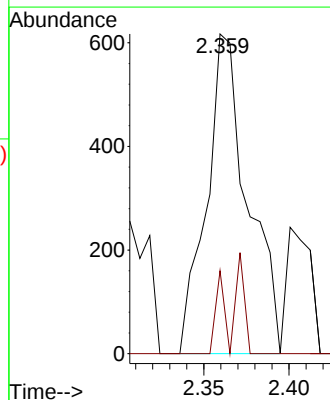
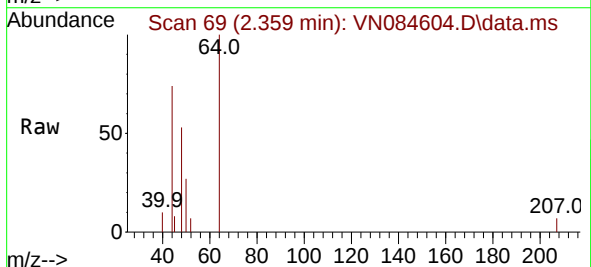
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#13

Tgt Ion:168 Resp: 185425
Ion Ratio Lower Upper
168 100
99 60.3 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

Tgt Ion: 50 Resp: 1038
Ion Ratio Lower Upper
50 100
52 25.9 26.8 40.2#

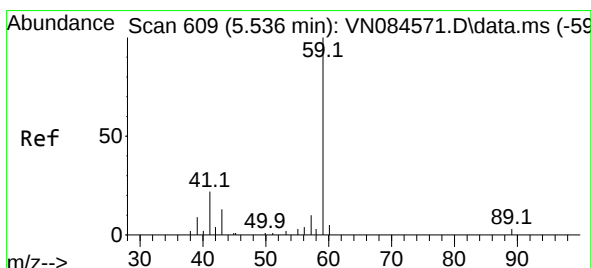
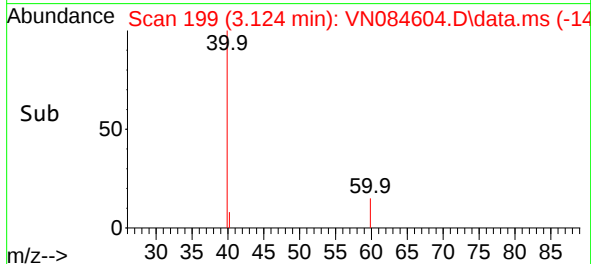
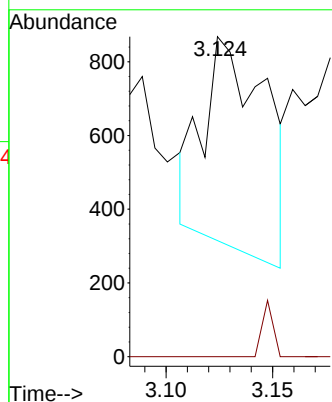
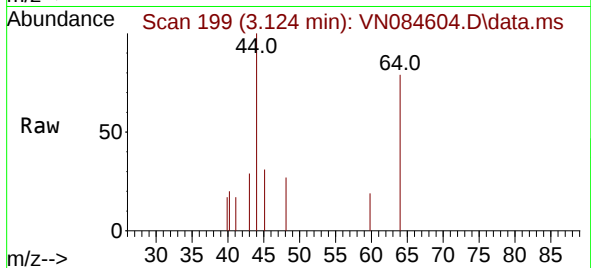




#6
Chloroethane
Concen: Below Cal
RT: 3.124 min Scan# 190
Delta R.T. 0.006 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

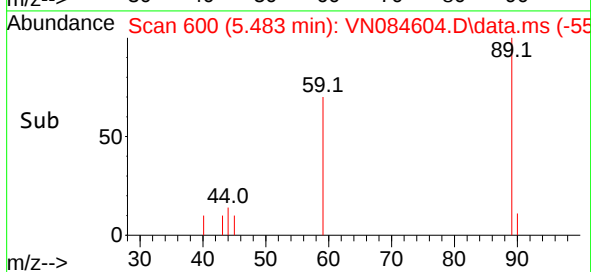
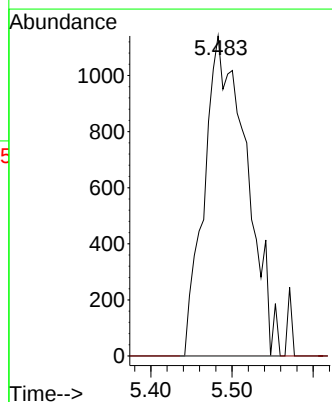
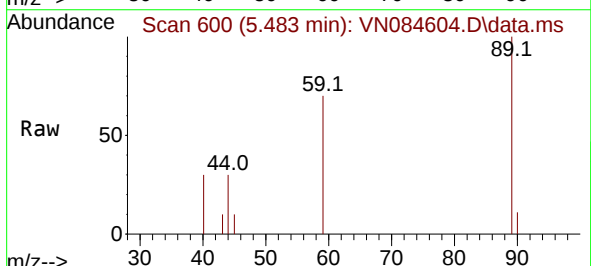
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#13

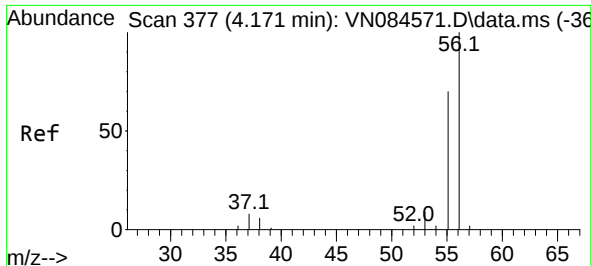
Tgt Ion: 64 Resp: 1158
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 11.680 ug/l
RT: 5.483 min Scan# 600
Delta R.T. -0.041 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

Tgt Ion: 59 Resp: 4129
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

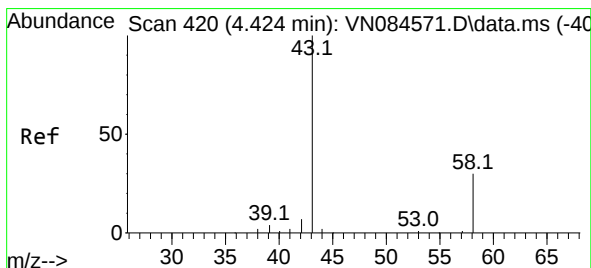
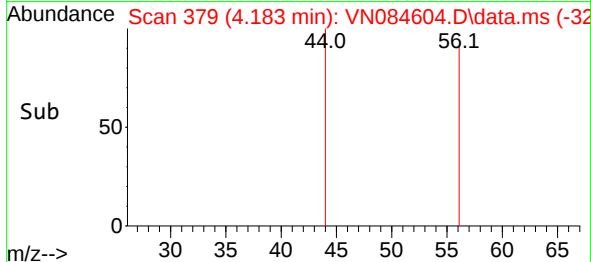
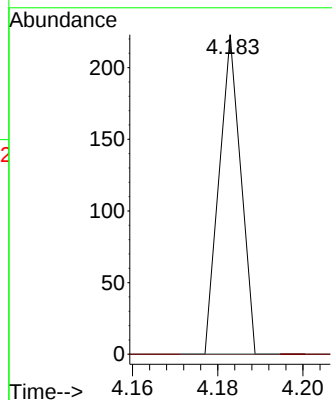
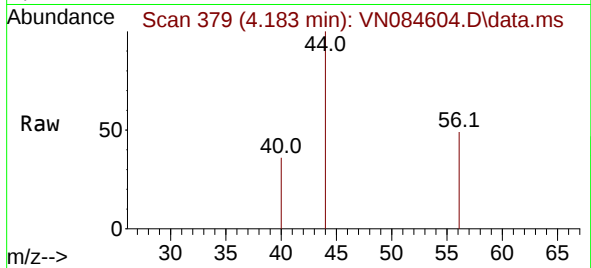




#13
Acrolein
Concen: 0.224 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

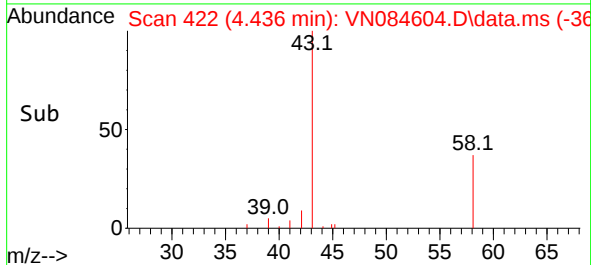
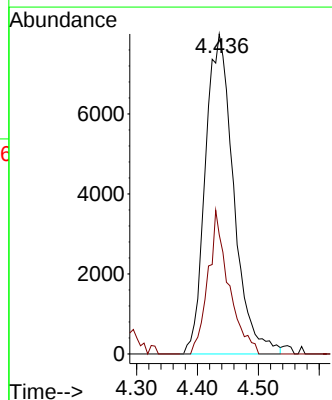
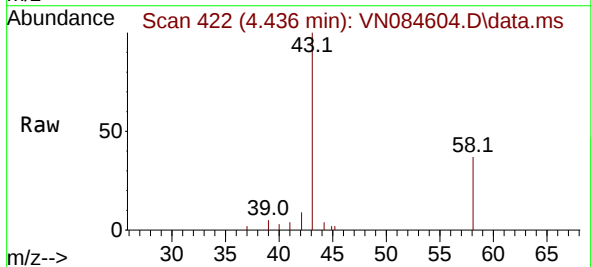
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#13

Tgt Ion: 56 Resp: 79
Ion Ratio Lower Upper
56 100
55 0.0 57.2 85.8#



#16
Acetone
Concen: 30.809 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

Tgt Ion: 43 Resp: 25769
Ion Ratio Lower Upper
43 100
58 37.3 24.4 36.6#





#18

Methyl Acetate

Concen: 1.151 ug/l

RT: 5.030 min Scan# 51

Delta R.T. 0.012 min

Lab File: VN084604.D

Acq: 31 Oct 2024 06:33

Instrument :

MSVOA_N

ClientSampleId :

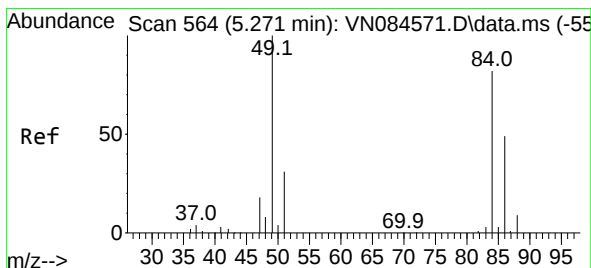
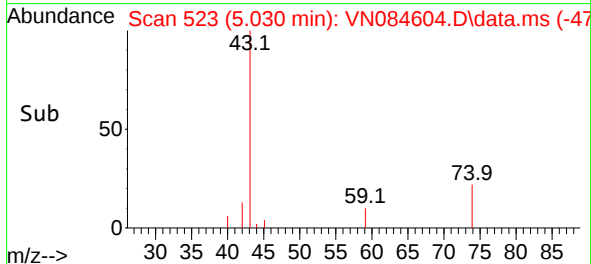
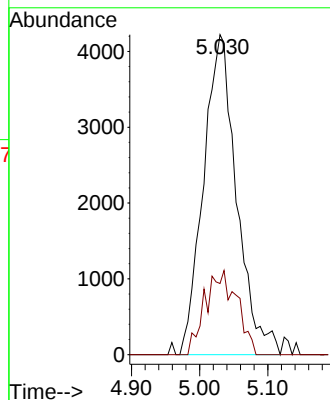
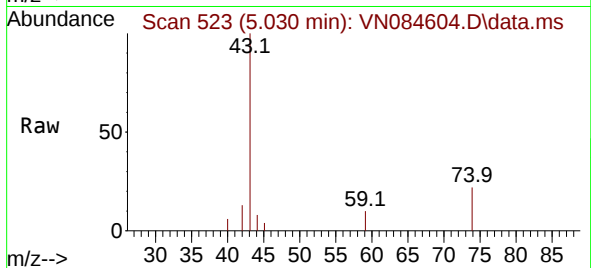
PB164501ZHE#13

Tgt Ion: 43 Resp: 14275

Ion Ratio Lower Upper

43 100

74 25.3 19.2 28.8



#20

Methylene Chloride

Concen: 1.083 ug/l

RT: 5.259 min Scan# 562

Delta R.T. -0.018 min

Lab File: VN084604.D

Acq: 31 Oct 2024 06:33

Tgt Ion: 84 Resp: 2552

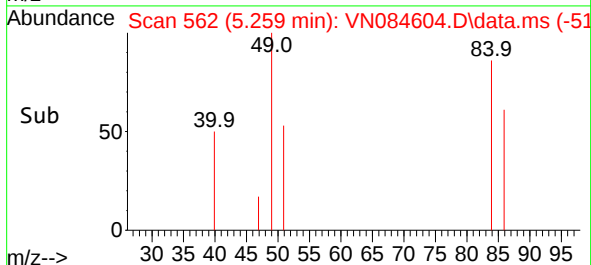
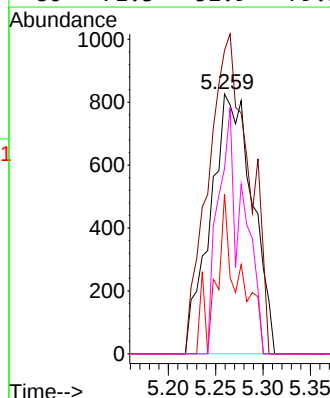
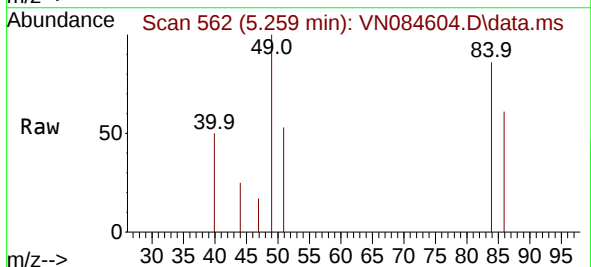
Ion Ratio Lower Upper

84 100

49 116.8 107.2 160.8

51 61.5 31.8 47.8#

86 71.3 52.9 79.3

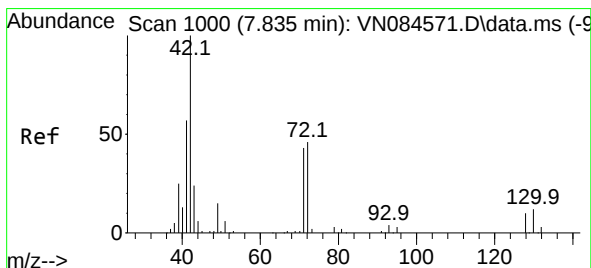
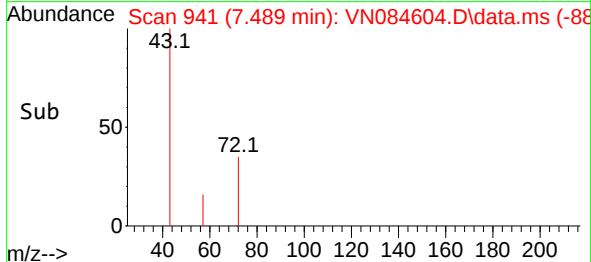
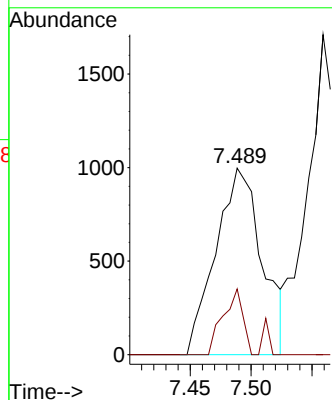
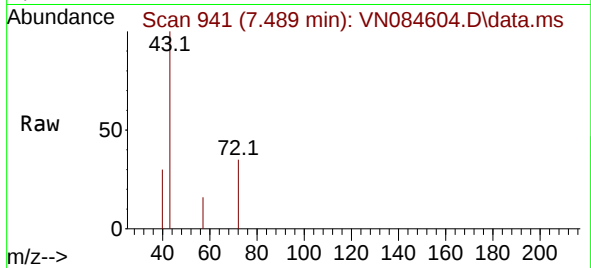




#25
2-Butanone
Concen: 2.111 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

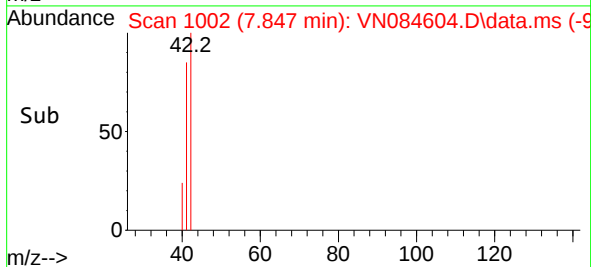
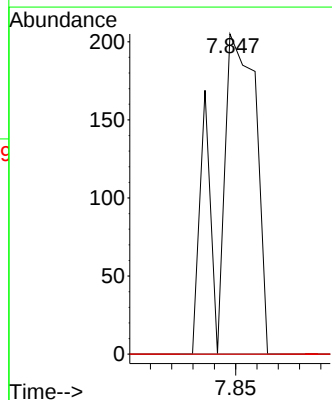
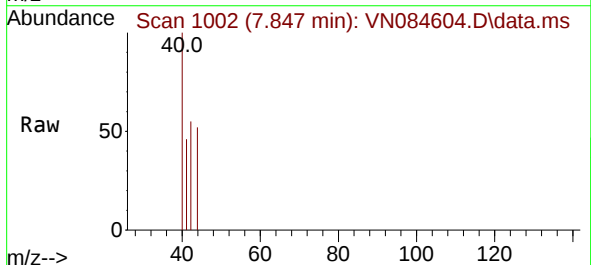
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#13

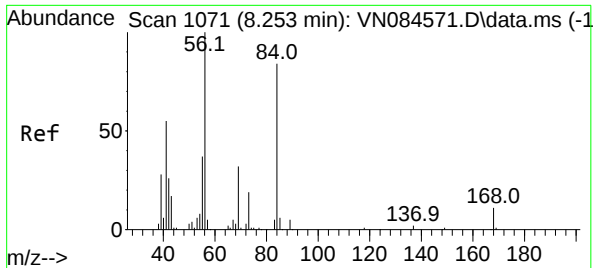
Tgt Ion: 43 Resp: 2638
Ion Ratio Lower Upper
43 100
72 35.3 21.4 32.2#



#29
Tetrahydrofuran
Concen: 0.315 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

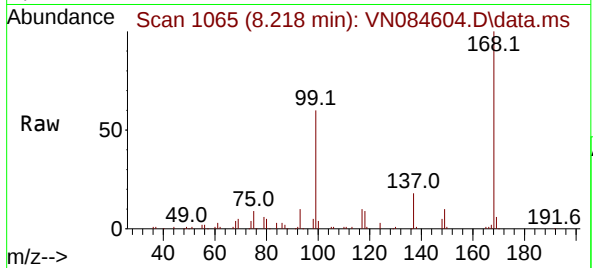
Tgt Ion: 42 Resp: 261
Ion Ratio Lower Upper
42 100
72 0.0 34.6 51.8#
71 0.0 32.2 48.4#



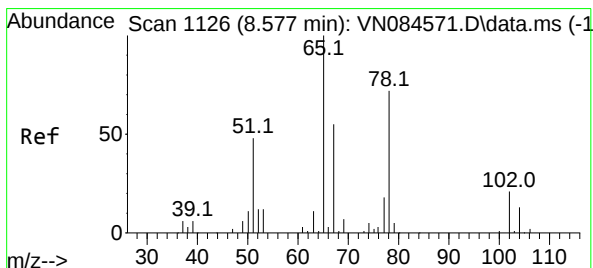
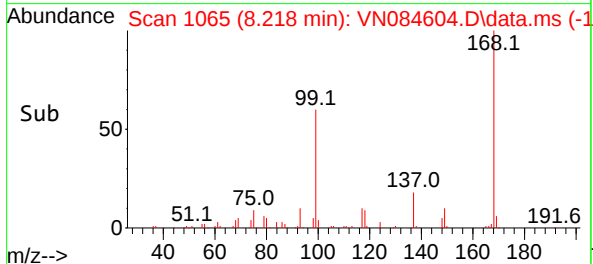
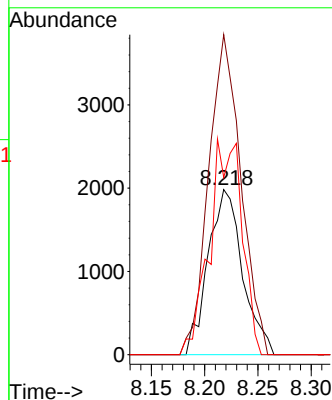


#31
Cyclohexane
Concen: 1.208 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

Instrument :
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PB164501ZHE#13

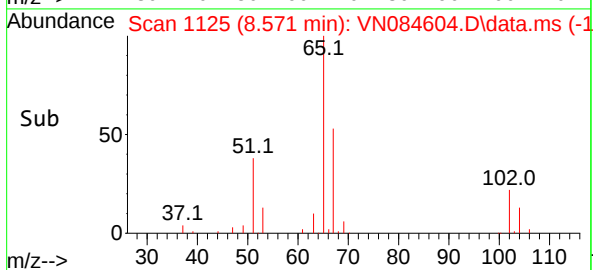
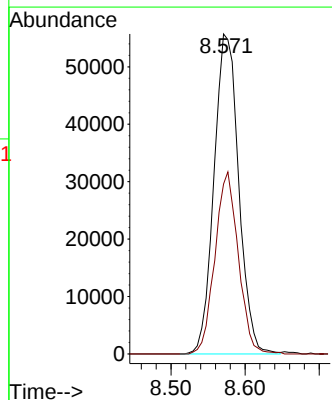
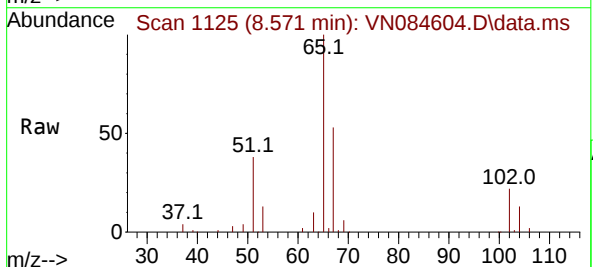


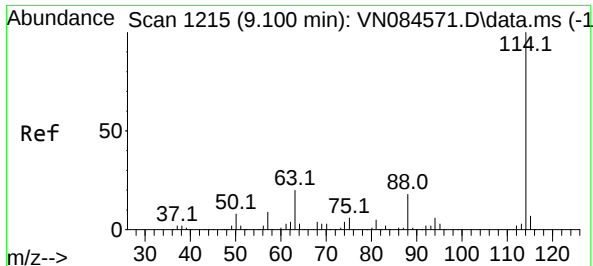
Tgt Ion: 56 Resp: 4465
Ion Ratio Lower Upper
56 100
69 193.8 23.8 35.6#
84 107.4 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 48.242 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

Tgt Ion: 65 Resp: 129201
Ion Ratio Lower Upper
65 100
67 53.7 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084604.D

Acq: 31 Oct 2024 06:33

Instrument :

MSVOA_N

ClientSampleId :

PB164501ZHE#13

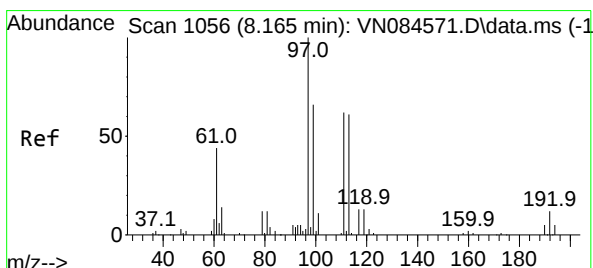
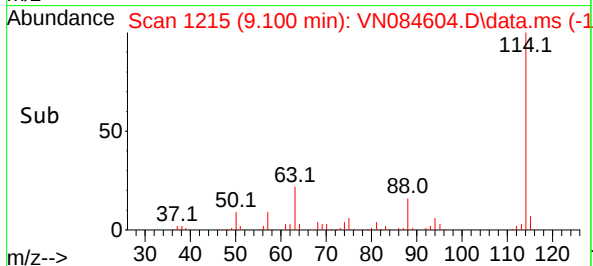
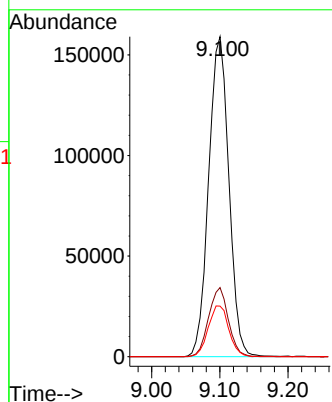
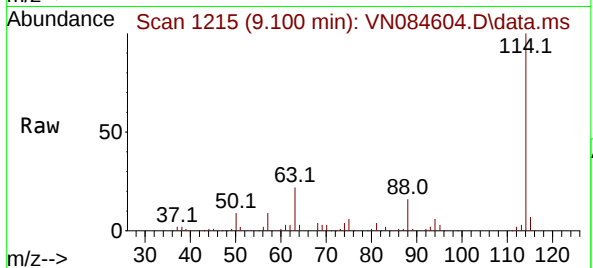
Tgt Ion:114 Resp: 327930

Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.8

88 15.8 0.0 31.6



#35

Dibromofluoromethane

Concen: 47.567 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN084604.D

Acq: 31 Oct 2024 06:33

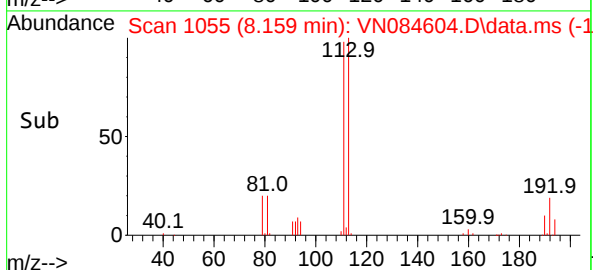
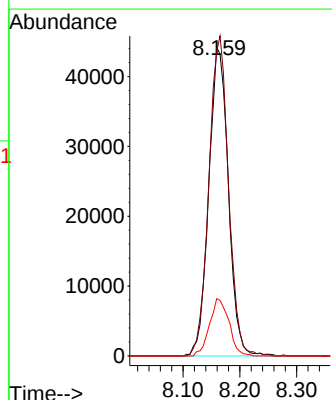
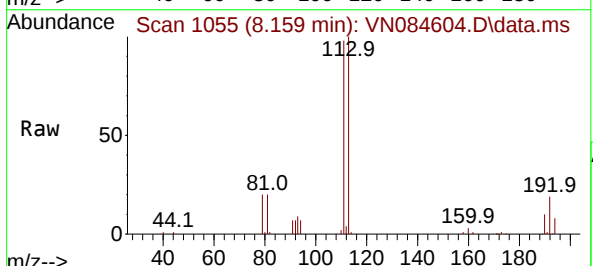
Tgt Ion:113 Resp: 105584

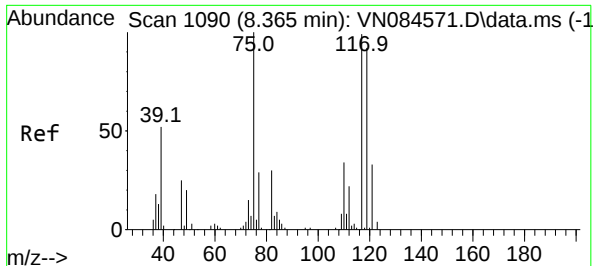
Ion Ratio Lower Upper

113 100

111 103.8 83.3 124.9

192 18.4 13.5 20.3





#36

1,1-Dichloropropene

Concen: 5.052 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084604.D

Acq: 31 Oct 2024 06:33

Instrument :

MSVOA_N

ClientSampleId :

PB164501ZHE#13

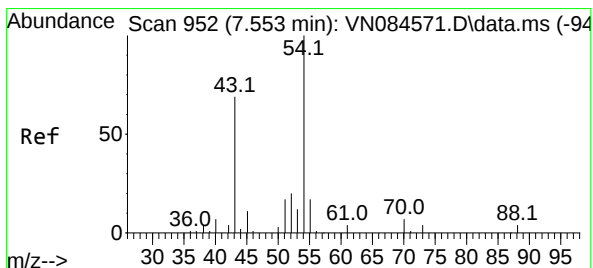
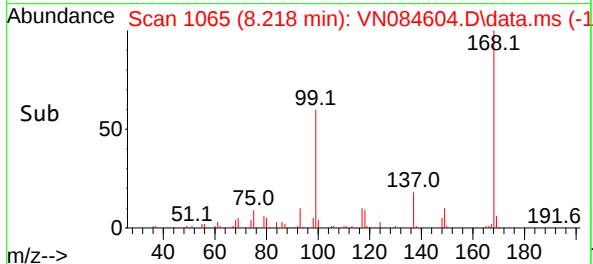
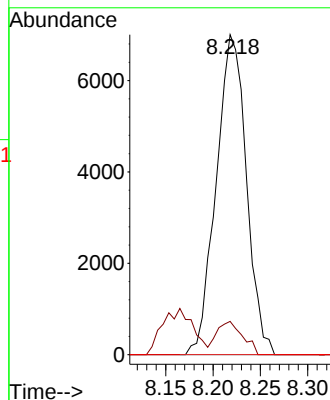
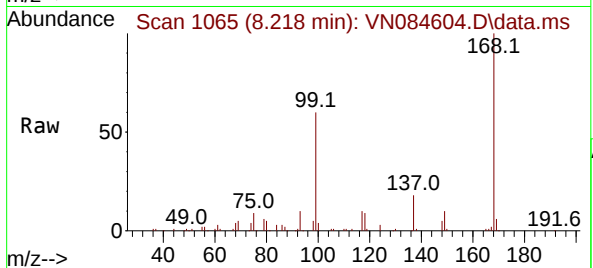
Tgt Ion: 75 Resp: 15552

Ion Ratio Lower Upper

75 100

110 8.9 16.9 50.7#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 1.315 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.000 min

Lab File: VN084604.D

Acq: 31 Oct 2024 06:33

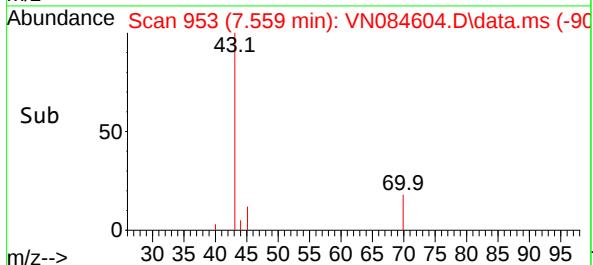
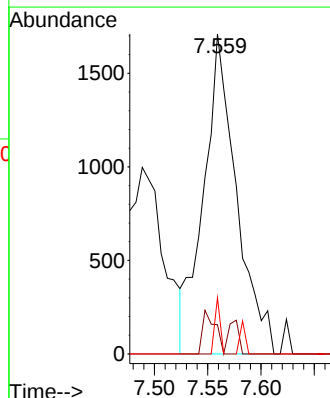
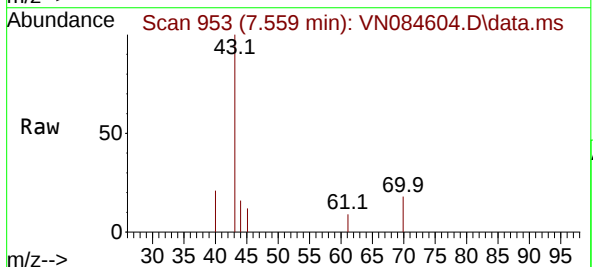
Tgt Ion: 43 Resp: 3674

Ion Ratio Lower Upper

43 100

61 5.3 10.7 16.1#

70 2.9 8.8 13.2#

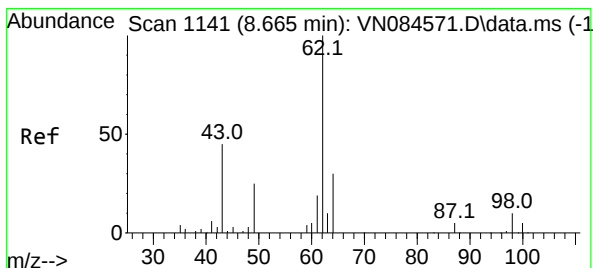
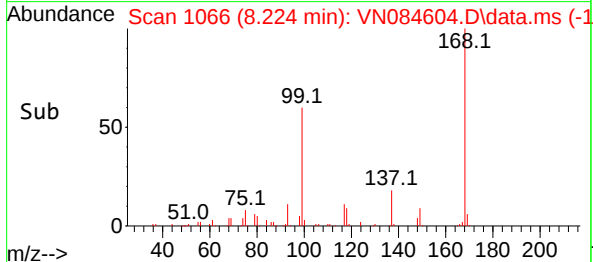
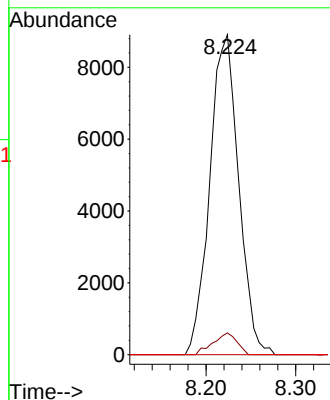
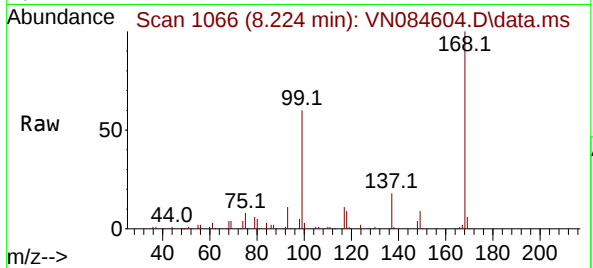




#38
Carbon Tetrachloride
Concen: 5.790 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

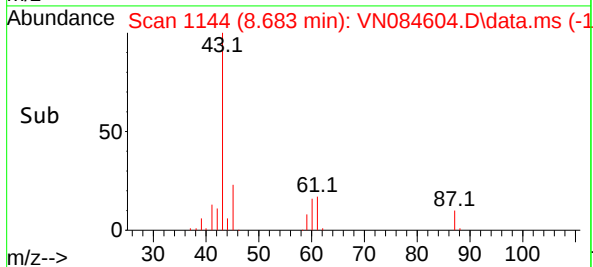
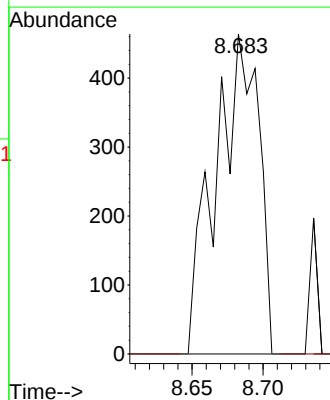
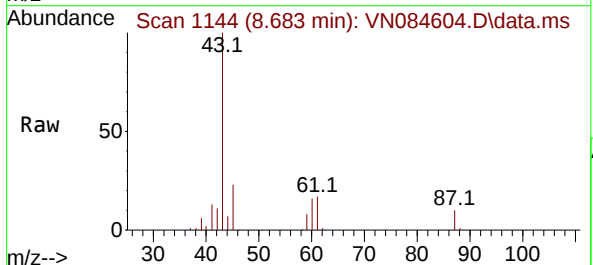
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#13

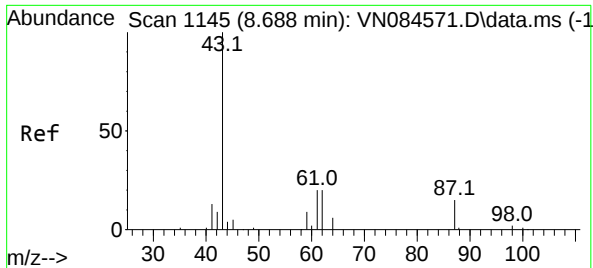
Tgt Ion:117 Resp: 19923
Ion Ratio Lower Upper
117 100
119 6.8 78.7 118.1#
121 0.0 24.4 36.6#



#42
1,2-Dichloroethane
Concen: 0.307 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.012 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

Tgt Ion: 62 Resp: 982
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2

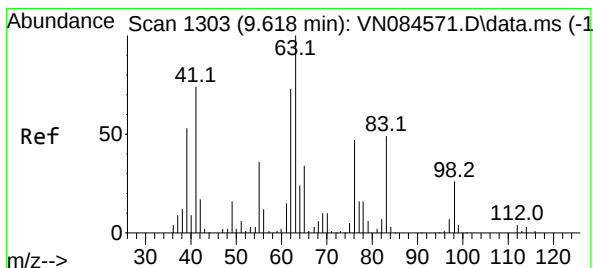
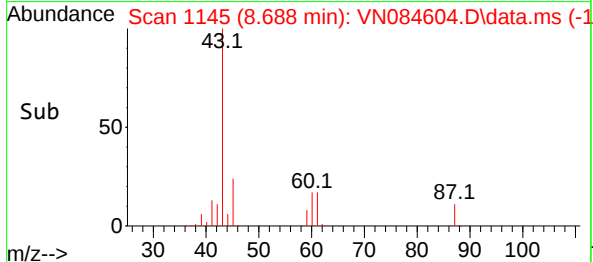
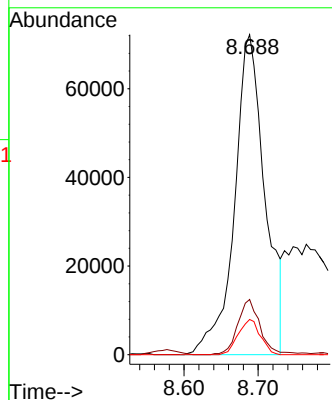
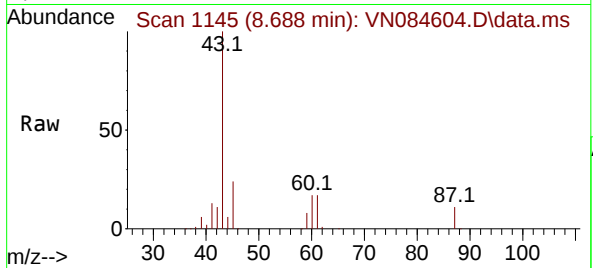




#43
Isopropyl Acetate
Concen: 39.770 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

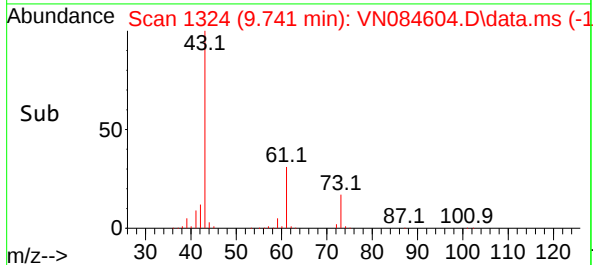
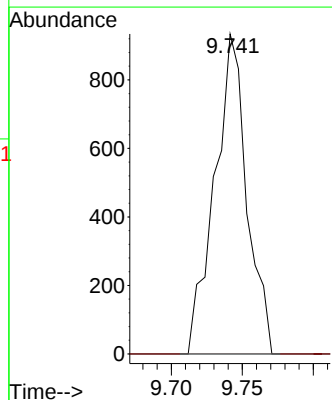
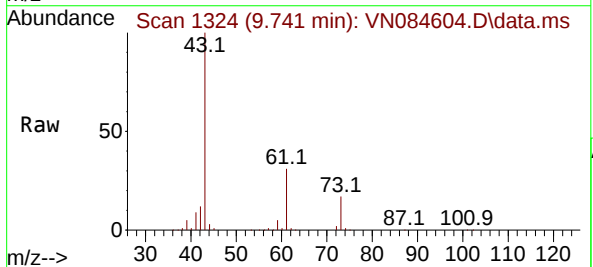
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#13

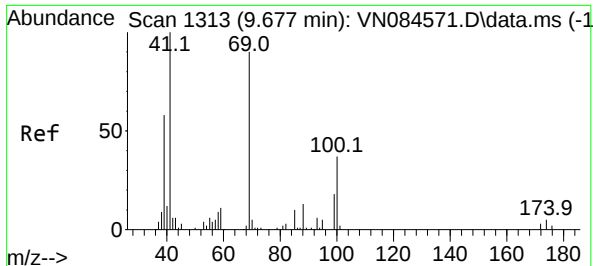
Tgt Ion: 43 Resp: 206232
Ion Ratio Lower Upper
43 100
61 12.9 20.4 30.6#
87 8.0 10.3 15.5#



#45
1,2-Dichloropropane
Concen: 0.635 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

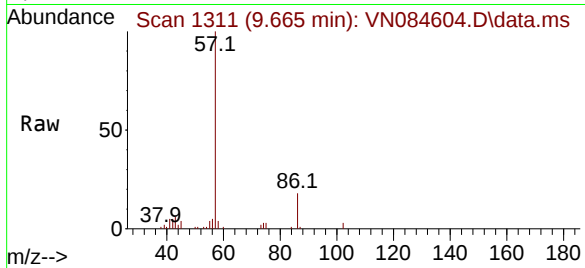
Tgt Ion: 63 Resp: 1473
Ion Ratio Lower Upper
63 100
65 0.0 24.6 37.0#



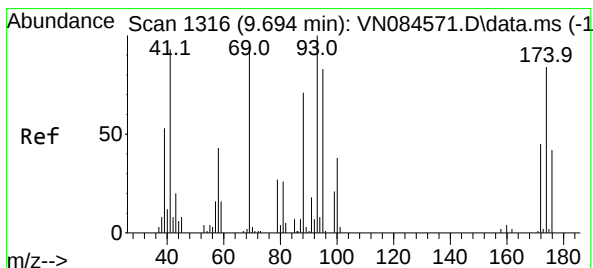
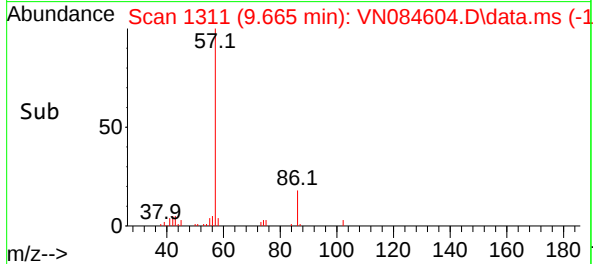
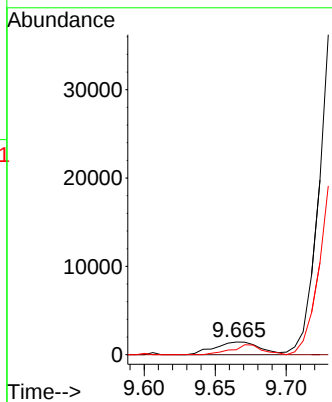


#48
Methyl methacrylate
Concen: 1.467 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.012 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#13

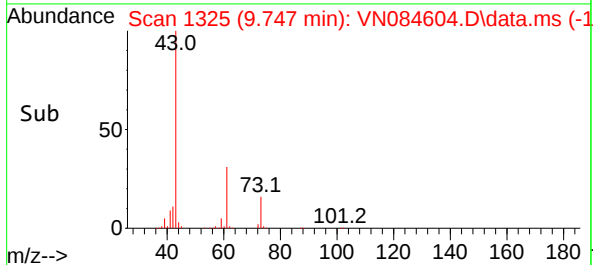
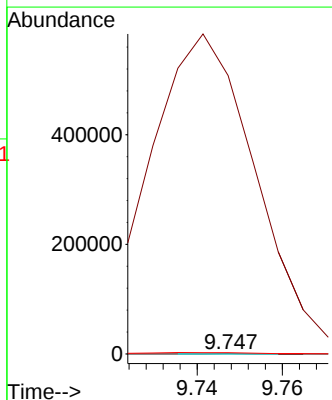
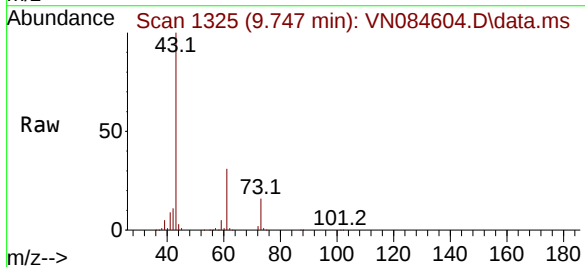


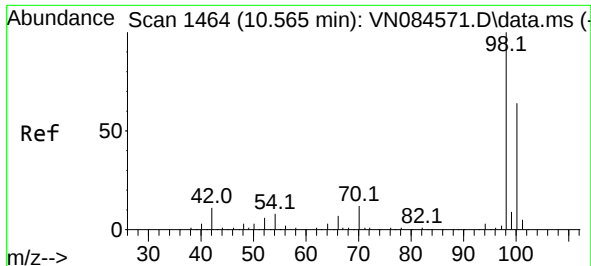
Tgt Ion: 41 Resp: 3188
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 52.9 45.8 68.6



#49
1,4-Dioxane
Concen: 1.687 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.053 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 1617507.7 25.3 37.9#
58 7624.6 56.4 84.6#

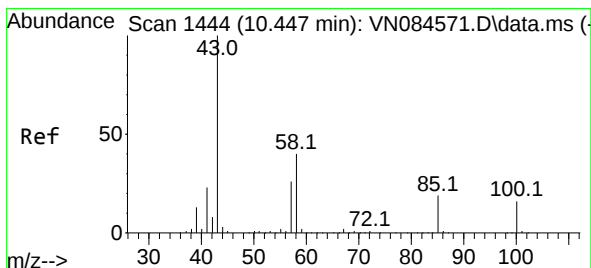
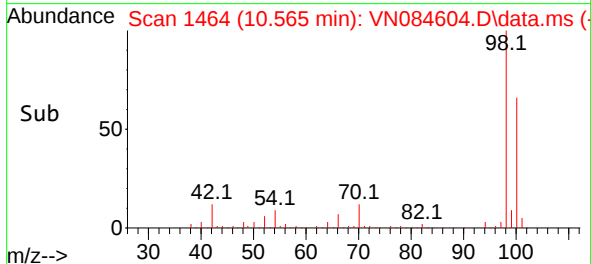
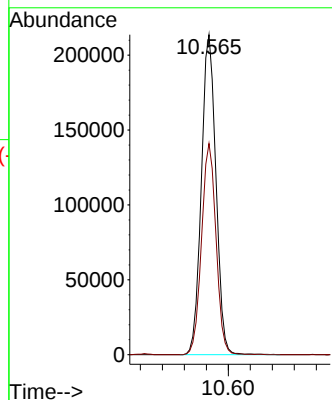
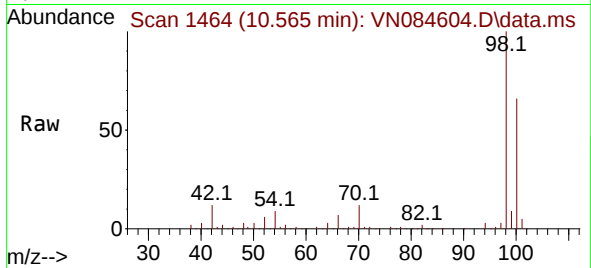




#50
Toluene-d8
Concen: 48.033 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

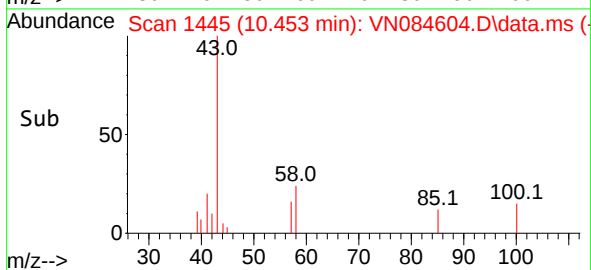
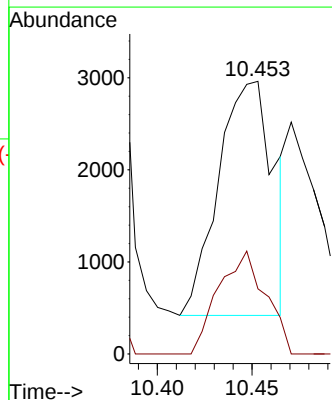
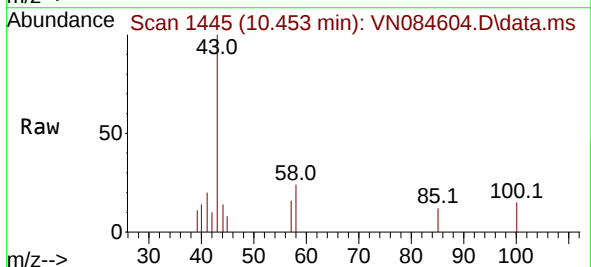
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#13

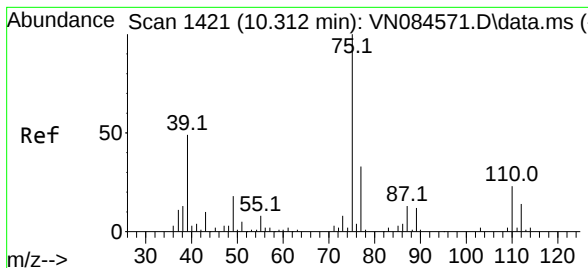
Tgt Ion: 98 Resp: 392746
Ion Ratio Lower Upper
98 100
100 65.6 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 1.931 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.012 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

Tgt Ion: 43 Resp: 5141
Ion Ratio Lower Upper
43 100
58 37.5 31.6 47.4

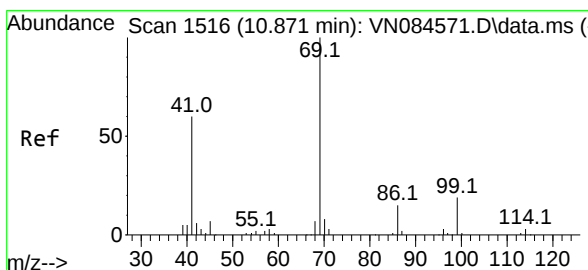
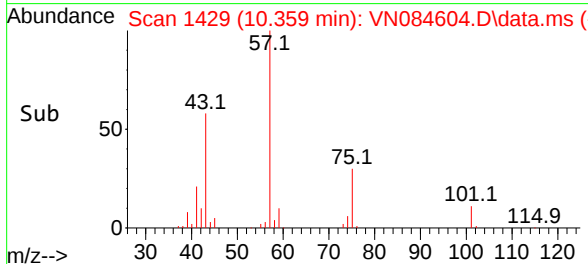
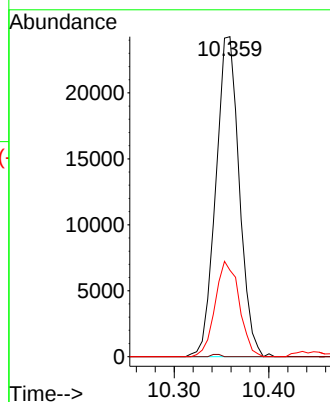
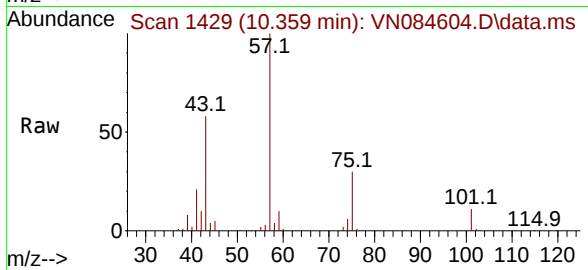




#54
 cis-1,3-Dichloropropene
 Concen: 11.057 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN084604.D
 Acq: 31 Oct 2024 06:33

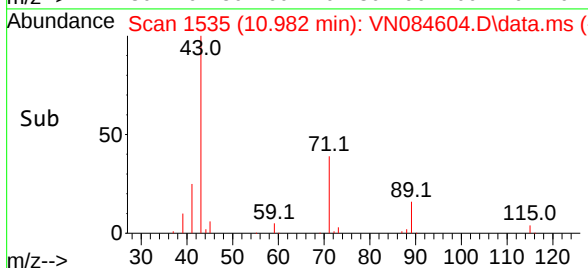
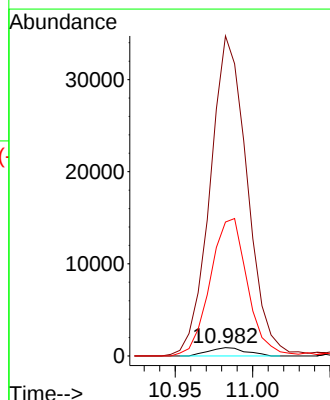
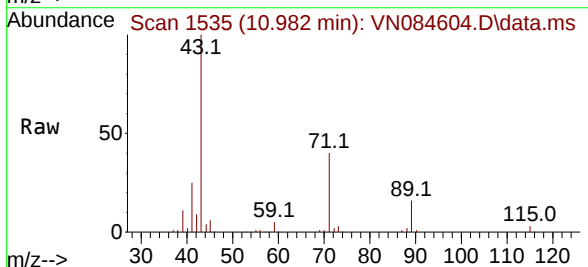
Instrument :
 MSVOA_N
 ClientSampleId :
 PB164501ZHE#13

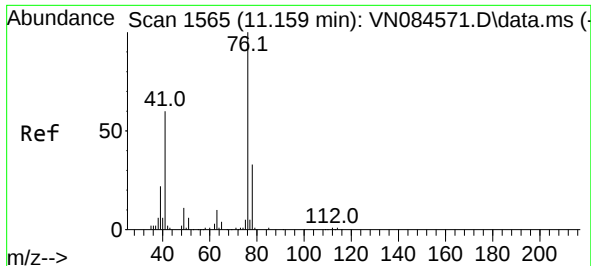
Tgt Ion: 75 Resp: 41785
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.2 36.2#
 39 27.0 38.7 58.1#



#56
 Ethyl methacrylate
 Concen: 0.480 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.112 min
 Lab File: VN084604.D
 Acq: 31 Oct 2024 06:33

Tgt Ion: 69 Resp: 1512
 Ion Ratio Lower Upper
 69 100
 41 3833.3 53.3 79.9#
 39 1652.2 28.8 43.2#





#57

1,3-Dichloropropane

Concen: 1.454 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

Lab File: VN084604.D

Acq: 31 Oct 2024 06:33

Instrument :

MSVOA_N

ClientSampleId :

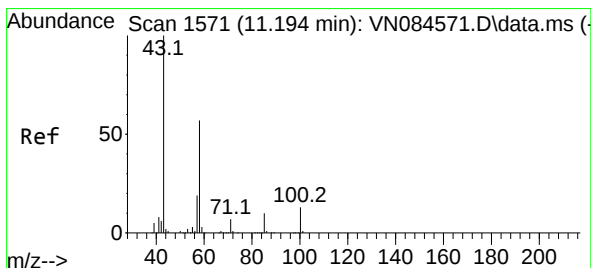
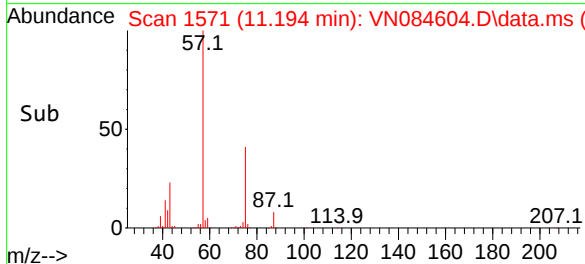
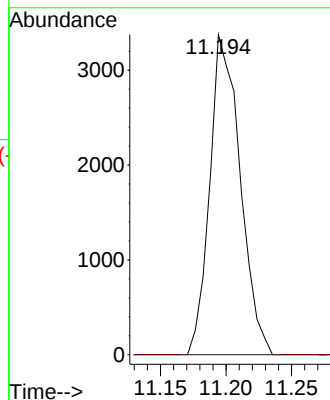
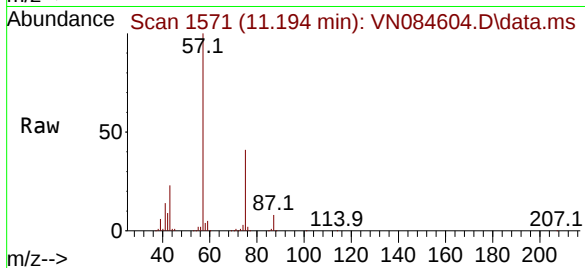
PB164501ZHE#13

Tgt Ion: 76 Resp: 5435

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 53.916 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.023 min

Lab File: VN084604.D

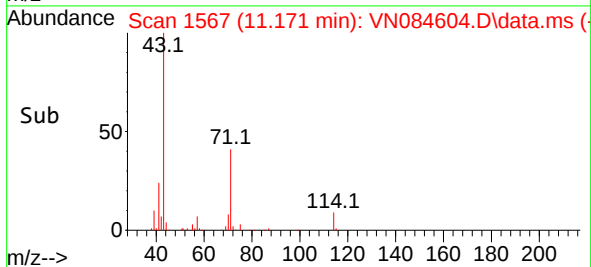
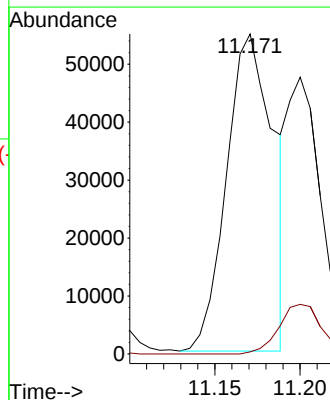
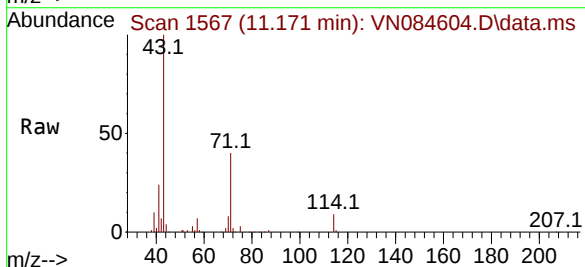
Acq: 31 Oct 2024 06:33

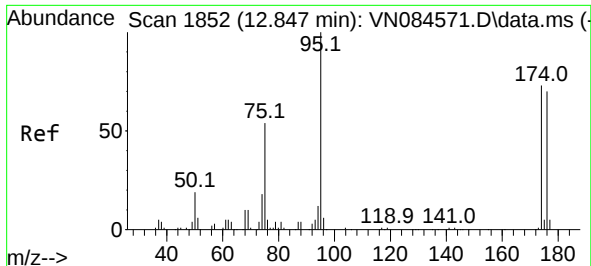
Tgt Ion: 43 Resp: 104493

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#

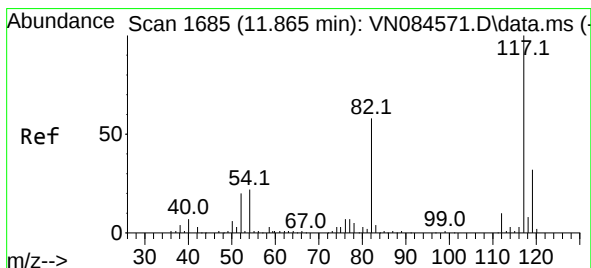
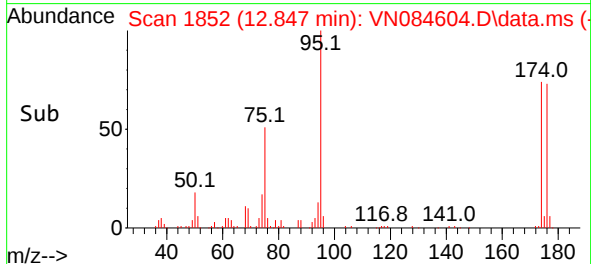
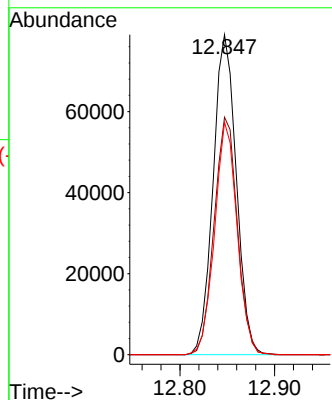
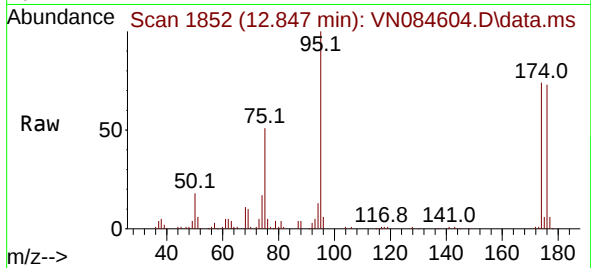




#62
4-Bromofluorobenzene
Concen: 43.863 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

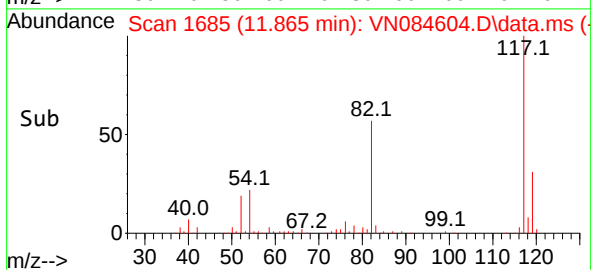
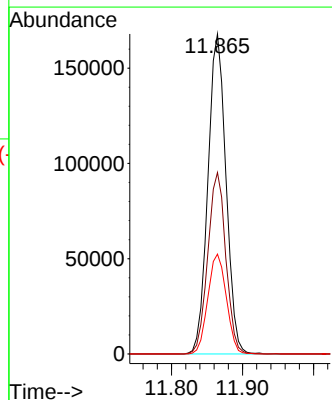
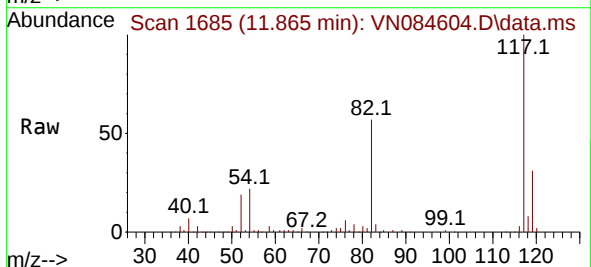
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#13

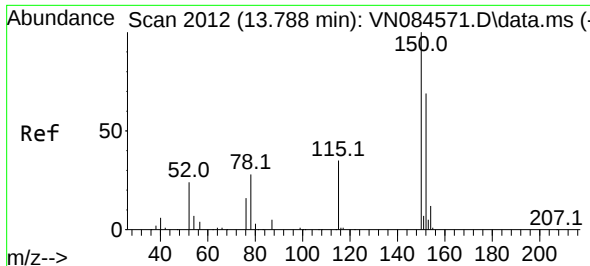
Tgt Ion: 95 Resp: 134041
Ion Ratio Lower Upper
95 100
174 74.6 0.0 145.2
176 70.7 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

Tgt Ion: 117 Resp: 296545
Ion Ratio Lower Upper
117 100
82 56.7 47.2 70.8
119 31.2 25.4 38.0

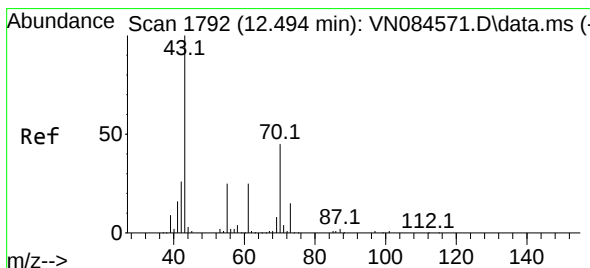
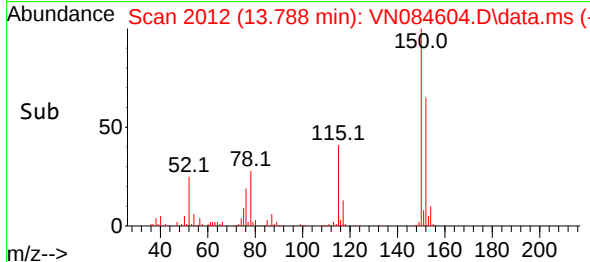
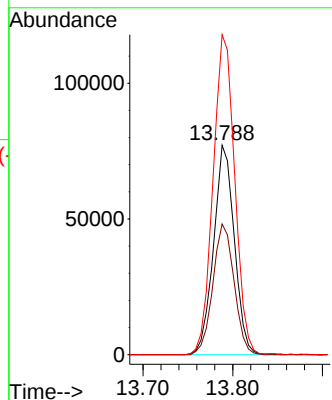
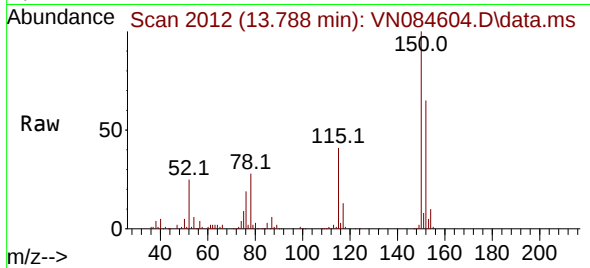




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

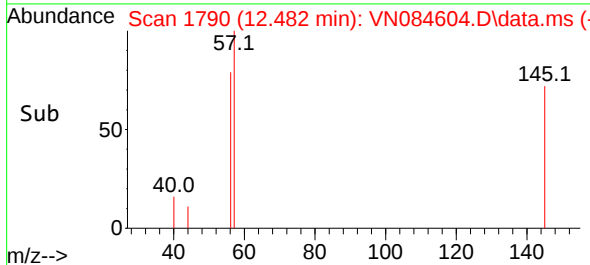
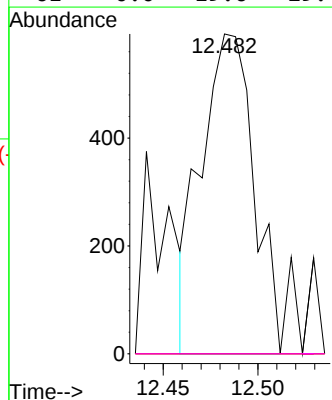
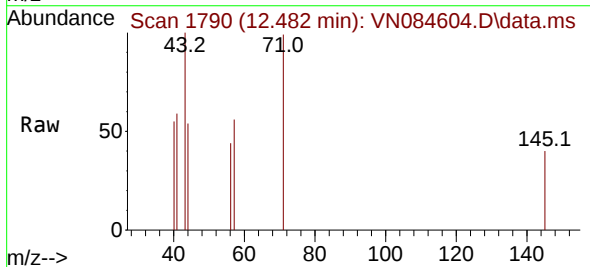
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#13

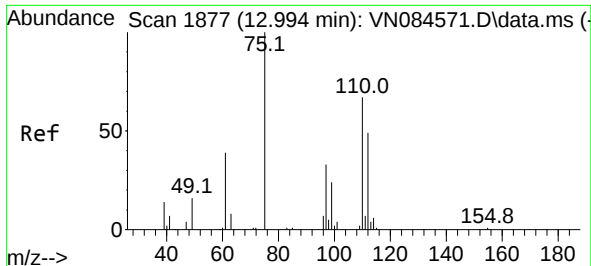
Tgt Ion:152 Resp: 123928
Ion Ratio Lower Upper
152 100
115 63.8 31.3 93.9
150 159.6 0.0 349.8



#74
N-ethyl acetate
Concen: 0.312 ug/l
RT: 12.482 min Scan# 1790
Delta R.T. -0.012 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

Tgt Ion: 43 Resp: 1152
Ion Ratio Lower Upper
43 100
70 0.0 34.4 51.6#
55 0.0 19.6 29.4#
61 0.0 19.6 29.4#

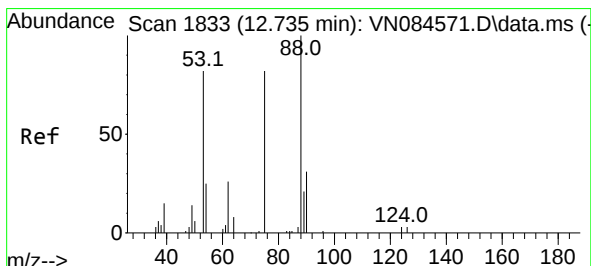
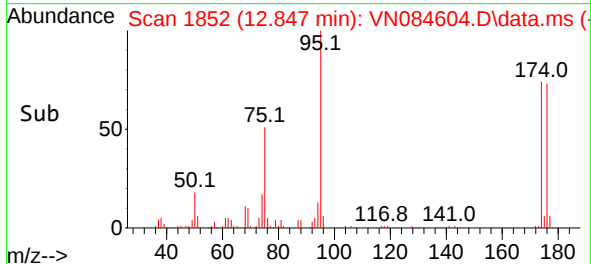
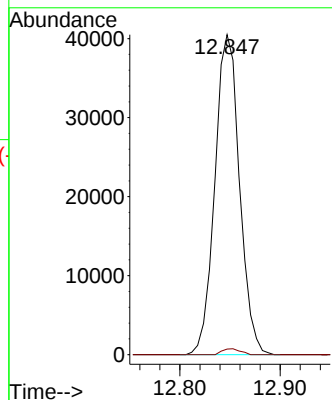
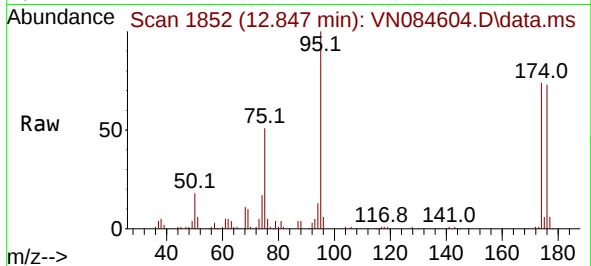




#76
1,2,3-Trichloropropane
Concen: 27.888 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

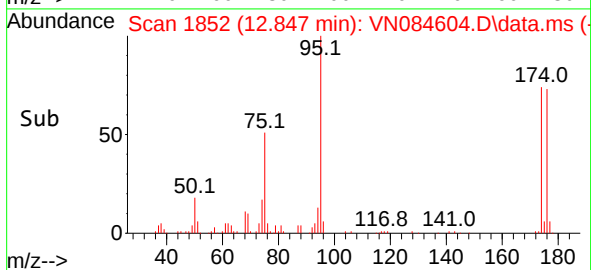
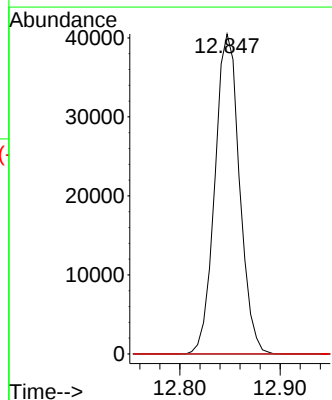
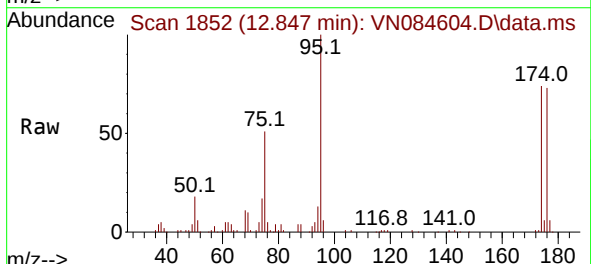
Instrument :
MSVOA_N
ClientSampleId :
PB164501ZHE#13

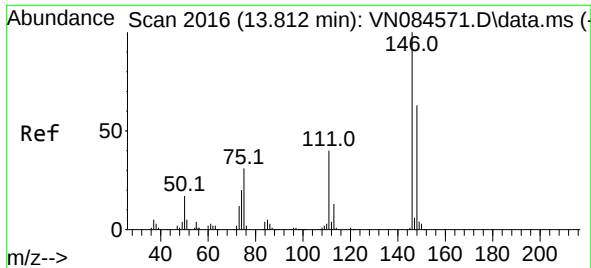
Tgt Ion: 75 Resp: 69085
Ion Ratio Lower Upper
75 100
77 1.4 96.9 290.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.161 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084604.D
Acq: 31 Oct 2024 06:33

Tgt Ion: 75 Resp: 69085
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.812 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN084604.D

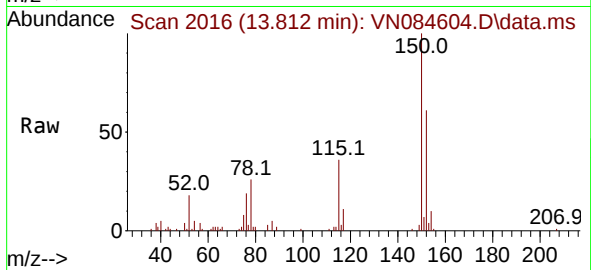
Acq: 31 Oct 2024 06:33

Instrument :

MSVOA_N

ClientSampleId :

PB164501ZHE#13



Tgt Ion:146 Resp: 71

Ion Ratio Lower Upper

146 100

111 0.0 21.2 63.6#

148 621.1 31.9 95.9#

